

IN THE CLAIMS

1. (Withdrawn) A micro-droplet generator, comprising:
a chamber, enclosed by a casing;
a spraying plate, having a plurality of spraying holes, placed on one side of said casing;
a piezoelectric plate, mounted inside said chamber, with a fixed end fastened on said casing
and a free end performing a bending movement;
a signal connector on one side of said fixed end of said piezoelectric plate, issuing signals that
cause said bending movement of said piezoelectric plate; and
a storage tank, containing liquid;
wherein a constant difference of liquid levels in said chamber and said storage tank is
maintained, automatically regulating negative pressure in said chamber.
2. (Currently amended) A micro-droplet generator, comprising:
a chamber having a negative internal pressure, enclosed by a casing;
a spraying plate having an inner major surface and an outer major surface opposite, forming a
portion of one side of said casing, said spraying plate, having a plurality of spraying
holes, placed on one side of said casing, said spraying holes being through-holes
connecting an opening on said inner major surface to an opening on said outer major
surface;
a piezoelectric plate, mounted inside said chamber, with a fixed end fastened on said casing
and a free end performing a bending movement; and
a signal connector on one side of said fixed end of said piezoelectric plate, issuing signals that
cause said bending movement of said piezoelectric plate;
wherein said plurality of spraying holes comprise a plurality of gradually widening holes
which allow external air to enter said chamber, thereby regulating said negative
pressure in said chamber.
3. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein said
piezoelectric plate is made of a plurality of layers of different piezoelectric materials.

4. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein said spraying holes are placed on a lower side of said casing.
5. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein an exchange of liquid and air through said spraying holes takes place, automatically regulating negative pressure in said chamber.
6. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein said spraying holes are further comprise a plurality of gradually narrowing holes and gradually widening holes, thereby increasing spraying force.
7. (Canceled)
8. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein said spraying holes are made of microstructures gradually widening holes, allowing external air easily to enter said chamber, balancing pressure in said chamber.
9. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein said piezoelectric plate and said spraying plate are placed at a mutual distance, allowing said piezoelectric plate freely to perform said bending movement.
10. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein, when said free end of said piezoelectric plate bends towards said spraying plate, liquid undergoes pressure and squeezed out through said spraying holes.
11. (Currently amended) The micro-droplet generator according to claims 1-~~or~~2, wherein, when said free end of said piezoelectric plate bends away from said spraying plate, air is sucked into said chamber through said spraying holes, balancing negative pressure in said chamber.